

T:0450

264974be.app
SEQUENCE LISTING

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<110> CHOO, YEN
KLUG, AARON
ISALAN, MARK

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<140> 09/424,482

<141> 2000-02-29

<150> 09/424,482

<151> 1999-11-23

<150> PCT/GB98/01510

<151> 1998-05-26

<150> GB 9710809.6

<151> 1997-05-23

<160> 114

<170> PatentIn version 2.1

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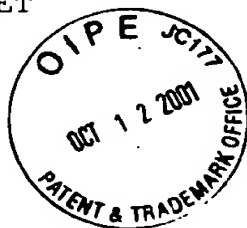
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46

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 1 5 10 15

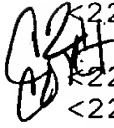
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 20 25 30

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2-3 residues

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Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His
20

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<211> 4

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Thr Gly Glu Lys
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<210> 7

<211> 5

<212> PRT

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<223> Description of Artificial Sequence: Linker

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Thr Gly Glu Lys Pro
1 5

<210> 8

<211> 26

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structure sequence

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
20 25

<210> 9

<211> 29

<212> PRT

<213> Artificial Sequence

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structure sequence

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Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
20 25

<210> 10

<211> 6

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Met Ala Glu Glu Lys Pro
1 5

<210> 11

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sorting sequence

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interaction sequence

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9

024
0017
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<212> DNA

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<223> Description of Artificial Sequence: Zinc finger-DNA
interaction sequence

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9

<210> 14

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<223> Description of Artificial Sequence: Zinc finger-DNA
interaction sequence

<400> 14

gcgtgggacg

9

<210> 15
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 interaction library designed sequence

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C2A
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 LIB-B Zinc finger

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 Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr
 20 25 30
 Gly Gln Lys Pro
 35

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LIB-B Zinc finger 2

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<400> 17

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Thr	Xaa	His	Ile	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro
			20					25			

<210> 18

<211> 28

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: LIB-B Zinc finger 3

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<222> (12)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (14)

<223> Any amino acid

<400> 18

Phe	Ala	Cys	Asp	Ile	Cys	Gly	Arg	Lys	Phe	Ala	Xaa	Ser	Xaa	Asp	Arg
1				5					10					15	

Lys	Arg	His	Thr	Lys	Ile	His	Leu	Arg	Gln	Lys	Asp
			20					25			

<210> 19

<211> 28

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finger 3

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Phe	Ala	Cys	Asp	Ile	Cys	Gly	Arg	Lys	Phe	Ala	Xaa	Xaa	Xaa	Xaa	Arg
1				5				10						15	

Lys	Arg	His	Thr	Lys	Ile	His	Leu	Arg	Gln	Lys	Asp
			20				25				

<210> 20

<211> 4

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<400> 20

Arg	Leu	Glu	Tyr
1			

<210> 21

<211> 4

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<400> 21

Arg	Ser	Glu	Asp
1			

<210> 22

<211> 4

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<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 22

Arg His Thr His
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<210> 23

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 23

Arg Ser Ser Glu
1

CR
CONF
<210> 24

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 24

Arg Ser Ser Ala
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<210> 25

<211> 4

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 25

Gln Val Thr Thr

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<210> 26
<211> 4
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Gln Ser Gly Asp
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<210> 27
<211> 4
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peptide

<400> 27
Gln Leu Ala Thr
1

<210> 28
<211> 4
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peptide

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Gln Asp Ala His
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Gln Arg Ala Ser

1

<210> 30

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Gln Ser Thr Ser

1

<210> 31

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<400> 31

Ser Ser Gly Asp

1

<210> 32

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 32
Ser Ala Ser Ala
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<210> 33
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 33
Asn Ser Gly Asp
1

02
ant
<210> 34
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Leu Val Gln Asn
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<210> 35
<211> 4
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peptide

<400> 35
Thr Gly Ala Ser
1

<210> 36

<211> 4
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peptide

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Thr Pro Ser Gly
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<210> 37
<211> 4
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peptide

024
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Thr Gln Thr Ala
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<210> 38
<211> 4
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<220>
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peptide

<400> 38
Thr Ser Ala Ala
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<210> 39
<211> 4
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peptide

<400> 39

Asp Thr Ser Val

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<210> 40

<211> 4

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Asp Ala Ser Thr

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<210> 41

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<400> 41

Asp Ala Ser Ala

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<210> 42

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<400> 42

Asp Thr Ser Ser

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Arg Asn His Asp
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<210> 44
<211> 4
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peptide

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Arg Ser Thr Asp
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<210> 45
<211> 4
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peptide

<400> 45
Arg Ser Thr Asp
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<210> 46
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<400> 46

Ser Arg His Ser
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<210> 47

<211> 4

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Arg Asn Ser Thr
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<211> 4

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<400> 48

Arg Thr Ser Thr
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<210> 49

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<400> 49

Thr Arg Tyr Ser

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<210> 50
<211> 4
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Arg Ala Gln Asn
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012
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<210> 52
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<210> 53
<211> 4
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<210> 54

<211> 4

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Gln Arg Gly Ala

1

<210> 55

<211> 4

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Gln Ser Thr Thr

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<210> 56

<211> 4

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65

C

<400> 56
Thr Ser Ser Ser
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<210> 57
<211> 4
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peptide

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Thr Ser Thr Ala
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<210> 60

<211> 4
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peptide

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Thr Ser Ser Leu
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C2
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Thr Ser Ser Ile
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<210> 62
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peptide

<400> 62
Thr Ser Asn Ser
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<210> 63
<211> 4
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peptide

<400> 63

Gly Ser Asn Asp

1

<210> 64

<211> 4

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peptide

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Thr Thr Ser Ser

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<210> 65

<211> 4

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peptide

<400> 65

Thr Ala Gly Ser

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<210> 66

<211> 4

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peptide

<400> 66

Thr Thr Ser Ser

1

608

C

<210> 67
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<220>
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peptide

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Thr Ser Ser Ala
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<210> 68
<211> 4
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peptide

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Leu Ser Thr Thr
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<210> 69
<211> 4
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peptide

<400> 69
Leu Ser Ser Thr
1

<210> 70
<211> 4
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peptide

<400> 70

Asp Pro His Asn

1

<210> 71

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peptide

<400> 71

His Ser Lys Ser

1

 <210> 72

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 72

His Arg Gln Asn

1

<210> 73

<211> 4

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<213> Artificial Sequence

<220>

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peptide

<400> 73

Asp Arg Ala Asn

1

<210> 74
<211> 4
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peptide

<400> 74
Asp Arg Ala Asn
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<210> 75
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02 cont
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<400> 75
Arg Ser Gln Asp
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<210> 76
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peptide

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Gln Val Gly His
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<210> 77
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<223> Description of Artificial Sequence: Zinc finger peptide

<400> 77

Gln Leu Ala Thr

1

<210> 78

<211> 4

<212> PRT

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02/24/01
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Thr Ser Gln Ala

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<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger peptide

<400> 79

Thr Ser Ala Ser

1

<210> 80

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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<400> 80
Leu Ala Gln Thr
1

<210> 81
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<220>
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peptide

<400> 81
Arg Ser Arg Asp
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<210> 82
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<220>
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peptide

<400> 82
Arg Leu Arg Asp
1

<210> 83
<211> 4
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<220>
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peptide

<400> 83
His Leu Ala Thr
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<210> 84

<211> 4
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<220>
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peptide

<400> 84
His Leu Thr Thr
1

<210> 85
<211> 4
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<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 85
Val Gly His His
1

<210> 86
<211> 4
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<220>
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peptide

<400> 86
His Pro Ala Thr
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<210> 87
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peptide

<400> 87

His Pro Ala Asn

1

<210> 88

<211> 4

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peptide

<400> 88

His His Ser Asn

1

C2
COPI <210> 89

<211> 4

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 89

Asp Ser Arg Ala

1

<210> 90

<211> 4

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peptide

<400> 90

Lys Ser Ser Asp

1

<210> 91
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peptide

<400> 91
Ser Ser Ser Asp
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<210> 92
<211> 4
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C2
ant
<400> 92
Arg Ser His Asp
1

<210> 93
<211> 4
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<400> 93
Arg Ser Ser Tyr
1

<210> 94
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<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 94

Arg Ser Ser Ser

1

<210> 95 .

<211> 4

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peptide

<400> 95

Arg Lys Thr Asp

1

C2
<210> 96

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<220>

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peptide

<400> 96

Gln Ile Ser Thr

1

<210> 97

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 97

Gln Ile Gly Ala

1

<210> 98
<211> 4
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<210> 108

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peptide

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His Ala Thr Thr

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Asp His Ser Ser

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His Pro Ser Thr

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<210> 114

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<400> 114

Asp Ser Ser Arg

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